# Vehicle Care



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### Vehicle Care Handbook

JAGUAR CARS LIMITED as manufacturers, are dedicated to the design and production of vehicles which meet the expectations of the world's most discerning purchasers.

To complement the features, systems and technology of your new vehicle we have produced this Vehicle Care Handbook. In it we have undertaken to provide information on vehicle care and maintenance to enable you to obtain lasting pleasure and reliability from your vehicle.

The information contained herein applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle, owners should consult their Jaguar Dealer.

The Manufacturer reserves the right to vary its specifications with or without notice, and at such times and in such manner as it thinks fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

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## Contents

### General Information

When left-hand or right-hand is used in the text, this refers to the left-hand side or right-hand side of the vehicle, viewed from the rear.

### laguar Dealers

Jaguar Dealers are chosen with care. Each is dedicated to providing a Sales, Service and Genuine Jaguar Parts facility of the highest standard.

Jaguar Dealers provide full technical back-up from the factory with comprehensive training for all their technicions. All Dealers' workshops operate to the highest standard and have all the necessary approved tools and equipment essential to maintain or repair Jaguar vehicles.

### The Jaguar Diagnostic System

The equipment used to assist diagnosis of faults in the electrical and electronic systems of the vehicle is unique and is only available to Jaguar Dealers. Use of this equipment will enable the Dealer to trace and rectify faults in the system and ensure that only faulty components are repaired or replaced.

Caution: Severe damage to the electrical system and electronic components can occur if any attempt is made to diagnose faults in the electrical system using conventional diagnostic equipment (i.e. use of test lamps, low impedance voltmeters, etc.).

### Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and the vehicle meets its specification.

Regular maintenance and servicing is the responsibility of the owner. Jaguar Dealers will be pleased to arrange periodic servicing in accordance with the USA/Mexico 'Passport to Service' Booklet or Canadian 'Club Jaguar' Warranty and Benefits Information Booklet.

USA and Mexico: Jaguar Dealers will arrange appointments on a mileage or time interval basis to ensure that all routine and corrective maintenance work is undertaken and recorded in the 'Passport to Service' Booklet.

Canada: Jaguar Dealers will arrange appointments on a distance or time interval basis to ensure that all routine and corrective maintenence work is undertken and recorded in the 'Club Jaguar' Warranty and Benefits Booklet.

Failure to implement maintenance at the recommended intervals could result in deterioration of vehicle performance and possible infringement of regulations.

### 1-2 Introduction

#### Maintenance Summary

It is the owner's responsibility to ensure that the vehicle is maintained in accordance with the Maintenance Schedules. Repairs resulting from a failure to maintain are not covered by the warranty.

The USA/Mexico 'Passport to Service' Booklet or Canadian 'Club Jaguar' Warranty and Benefits information Booklet is a convenient document to record all maintenance services on the vehicle.

All vehicle literature should be passed to any subsequent owner at the time of resale.

USA and Mexico: If the 'Passport to Service' Booklet is not available, a replacement may be obtained by writing to the Consumer Relations Department, Jaguar Cars, 555 MacArthur Boulevard, Mahwah, New Jersey 07430, quoting the vehicle identification number from the plate located inside the windscreen, plus the date of purchase and current mileage or kilometres.

Canada: If the 'Club Jaguar' Warranty and Benefits Information Booklet is not available, a replacement may be obtained by writing to the consumer Relations Department, Jaguar Canada, 8 Indel Lane, Bramalea, Ontario, L6T 4H3, quoting the vehicle identification number from the plate located inside the windscreen, plus the date of purchase and current kilometres.

#### Scheduled Maintenance

The Maintenance Schedules list all the maintenance operations and their intervals. Because of the need for the use of specialized equipment and skills, it is strongly recommended that all service work be entrusted to a Jaguar Dealer.

Should the vehicle cover a low annual mileage, have a high proportion of short journeys or operate in severe conditions, Jaguar Cars recommend that the lubrication service shown in the maintenance schedule in the 'Passport to Service' Booklet be performed at intervals not to exceed six months.

The Maintenance Schedules may be revised from time to time. Jaguar Dealers will be notified of revisions by Service Policy Letters or Technical Bulletins.

USA only: Maintenance, replacement or repair of the emission control devices and system may be performed by any automotive repair establishment or individual using any automotive part which has be certified by Jaguar Cars.

### **Safety Precautions**

Take particular note of WARNINGS and Cautions given throughout this handbook.



### WARNING:

Warnings are procedures which must be followed precisely to help avoid the risk of personal injury.

Caution: Cautions are procedures which must be followed precisely to reduce the possibility of damage to the vehicle and resultant risk of personal injury or inconvenience.





### Warning symbols on the vehicle

On encountering the warning triangle and open book symbol on the vehicle, it is important that you consult the relevant section of this handbook before touching this part of the vehicle or attempting adjustments of any kind.

### 1-4 Introduction

### Safety Precautions (continued)



- Many liquids and other substances used in vehicles are poisonous and must never be consumed and should be kept away from open wounds. These substances include anti-freeze, brake fluid, fuel, windscreen washer additives, lubricants and various adhesives.
- The presence of any unusual fumes (e.g. gasoline or exhaust fumes) in the passenger compartment and/or luggage compartment should be corrected immediately by a Jaguar Dealer. If you must drive under these conditions do so only with all windows fully open.
- Any modifications to the fuel system not specifically designed for this Jaguar are prohibited. Such modifications in some circumstances could result in a fire. All service actions must be entrusted to a Jaguar Dealer.
- 4. Alterations to the electrical system, including the fitting of accessories not designed for this Jaguar will cause damage to the electrical circuits and systems. In some circumstances this could result in a fire. All accessory work should be entrusted to a Jaguar Dealer.
- 5. No attempt should be made to repair a fuse that has blown. Always install a fuse of the correct amperage (see fuse charts, pages 4–16 to 4–20). Failure to comply with the above may cause a fire hazard or serious damage elsewhere in the electrical circuit

- 6. Avoid contact with battery acid which is poisonous and corrosive. Acid will cause burns to the skin as well as to the eyes. In the event of skin or eye contamination, wash the affected area with water thoroughly. Seek immediate medical attention when eye contact has occurred.
- Never reverse the battery terminal connections. Always disconnect both terminals before battery charging.
- When disconnecting the battery connections, always disconnect the earth terminal first and reconnect last.
- Batteries produce combustible gas (hydrogen) when charging. Switch off the charger before connecting or disconnecting terminal connections to avoid sparks and short circuits.
- 10. Do not disconnect any pipes in the air conditioning refrigeration system. A refrigerant is used which can cause blindness if allowed to contact the eyes. FIRST AID: If refrigerant should contact the eyes or skin, wash the eyes or affected area with cold water for several minutes. Do not rub. As soon as possible thereafter, obtain treatment from a doctor or eye specialist.

### Safety, Warning and Caution Labels

Note: Do not remove any warning labels from the under hood area or inside of the vehicle.

### Braking System (A)

The brake fluid caution symbol is moulded into the master cylinder filler cap.

Brake system warning information is moulded into the master cylinder reservoir and states:

WARNING: CLEAN FILLER CAP BEFORE REMOVING, USE ONLY SUPER DOT 4 BRAKE FLUID FROM A SEALED CONTAINER.

### Cooling System (B)

The header tank label is located on the filler cap and states:

WARNING - DO NOT OPEN WHEN HOT.

### Power Steering System (C)

The label is located on the reservoir filler cap and states: WARNING.

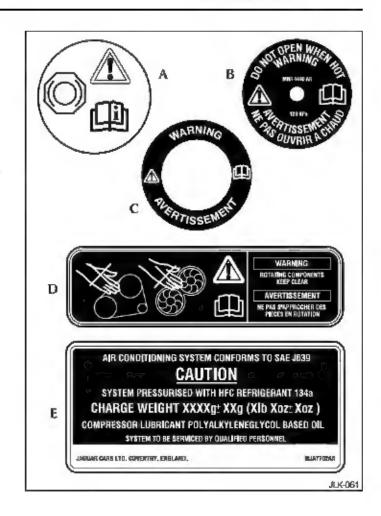
Refer to SECTION for topping up the power steering system.

### Rotating Components (D)

A label is located on the fan shroud and states: WARNING - ROTATING COMPONENTS - KEEP CLEAR.

### Climate Control System (E)

The label located under the head on the left-hand side states: CAUTION - System pressurised with HFC refrigerant 134a. System to be serviced by qualified personnel.



### 1-6 Introduction

#### **General Precautions**

- Ensure that the vehicle is securely supported before working underneath it. Chock the front wheel and apply the handbrake.
- Whenever possible use a suitable wheel-free lift when working beneath the vehicle.
  - If a jack is used to support the vehicle, use axle stands carefully placed at the jacking points to provide a rigid support.
  - Do not use any jacking equipment under the front cross member
- Ensure that adequate ventilation is provided when volatile degreasing agents are being used.
- Never use volatile cleaning fluids under a vehicle standing over a pit. Many such fluids give off vapours which are heavier than air and dangerous to inhale.
- Wear protective overalls, ensure loose clothing (ties. etc.) are removed or covered when working adjacent to moving components (fan belts, etc.)
- Do not leave opened containers of oil, fuel, etc., about the work area. Always refit caps/sea is to partially used containers when storing them for later use
- Do not leave tools, equipment, spilt oil, etc., around or on the work area
- Place a fire extinguisher close to the vehicle and disconnect
  the negative battery terminal. Do not use a naked flame to
  provide illumination, especially under the vehicle, or in the
  engine and luggage compartments. Do not smoke while
  working on the vehicle.

- Do not apply heat in an ottempt to free nuts or fittings. This
  will damage protective coatings and there is a risk of damage
  to electronic equipment and brake and fue illnes from
  conducted heat
- Inspect power leads of any mains electrical equipment for damage, and check that it is properly earthed.

### General Precautions Against Damage

- When working in the engine compartment protect the extenor paintwork by using suitable covers over the wings and souttle
- To prevent soring the interior, carry out jobs requiring
  access to the passenger or luggage compartments first. If a
  job involves access to the interior in the course of other
  work, prevent the transfer of pilland grease to the interior by
  using seat and carpet covers and wearing clean overalls and
  gloves.
- Always use a recommended service tool, where specified
- Avoid spilling hydrau ic fluid or battery acid on paintwork.
   Wash off with water immediately if this occurs.

#### General Precautions (Continued)

### Used Engine Oil



### WARNING:

Prolonged and repeated contact may cause serious skin disorders, including dermatitis and cancer.

Always use a hand cream to protect the skin from oil contamination. Avoid contact with the skin as far as possible and wash thoroughly after any contact. Keep oils out of reach of children

PROTECT THE ENVIRONMENT: It is llegal to pollute drains, water courses and soil. Use authorised waste collection taculities, including civic amenity sites and garages providing faculities for the disposal of used oil, oil filters and batteries. If in doubt, contact your local Authority for advice on disposal

### **Engine and Throttle Settings**

Do not attempt to make adjustments to the engine or throttie settings. Many vehicle systems are controlled by complex electronic devices and require specialist knowledge. Such work should be entrusted to a Jaguar Dealer

### Battery/Ignition Isolator Switches

Non-approved battery isolator switches, which disconnect the power supply to all electrical circuits, are **not** recommended

### Hydraulic Fluids

The Brake Hydraulic Fluid in the master cylinder and brake operating system uses non-mineral polyglycol based brake fluid with a minimum standard of JAGUAR SUPER DOT 4. ONLY FLUID OF THIS TYPE AND STANDARD MAY BE USED.



### WARNING:

Contamination of the brake system fluid by as little as 1% will cause rapid deterioration of the system seals. Ensure that the brake fluid reservoir cap is securely fitted.

#### Electrical Accessories

The fitting of any electrical accessory should only be entrusted to a laguar Dealer Refer to Electrical Accessories in Section 7. This information must be observed before fitting any accessories.

### 1-8 Introduction

### **Hood Release Control**

The hood took release control is below the fascia on the driver's side.

To open: Release the hood lock by pulling the lever. Reach across to the centre of the hood and lift the rear edge. The gas filled struts will assist raising the hood, and retain it in the fully open position.

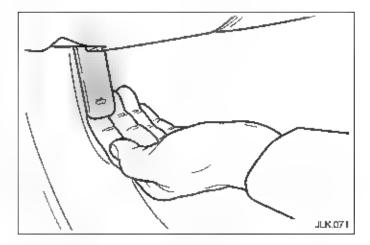


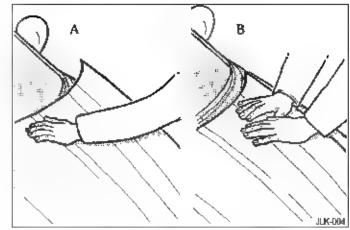
### WARNING:

Before closing the hood ensure that no one is obstructing the closing area and that hands and clothes are clear. Remove tools, cleaning cloths, etc. from the engine compartment.

hood latching. Close the hood to within a distance of 10 to 12 inches (250 to 300 mm) of the fully closed position. Place the left hand on the hood as shown at (A). Then pressing downwards slam the hood shut. This action should engage both the right-hand and left-hand latches.

Should one latch fall to engage, place both hands as shown at (B) above the unlatched side and press down firmly on the hood until it engages.





### Introduction

This section gives full details of the methods and cleaning agents which should be used to achieve the best results and maintain the finish of the vehicle, both internally and externally

Read carefully the restrictions on the use of jet washes and automatic car washes. Note that convertible models should not be washed in an automatic car wash that has rotating brushes.

### **Exterior Care**

#### Valet Kit

A selection of Car Care products is available from the Jaguar accessory range

**Note:** All the cleaning materials mentioned in this section are evailable from the Jaguar Accessory Range

### Washing

For best results, do not wash the vehicle under strong sunlight. Always allow the vehicle to cool down before washing.

Do not use a dry cloth to wipe dirty paintwork. Dust and grit are abrasive and will cause scratches. Remove dirt using a cellulose sponge and pienty of warm (never hot) water. Rinse with clean water and dry with a clean, damp chamois leather.

Do not use household soaps or detergents. The use of Jaguar Vehicle Shampoo is recommended

Do not direct hoses at full force around door and luggage compartment seals and the convertible top. Using high pressure water jets on the paintwork is not recommended.

Do not allow bird droppings or tree sap to harden. Remove from paintwork immediately with a luxewarm soap and water solution.

In winter, when ealt is used on the roads, wash the vehicle frequently, and immediately after encountering such conditions. Clean undersides and wheel arches using a high pressure jet

#### Automatic Car Wash

Caution: Convertible models: Do not use an automatic car wash that has rotating brushes. The action of the brushes may damage the exterior fabric of the convertible top.

Note: Regular use of automatic car washes tends to dull the lustre of the paintwork

### Before entering the car wash it is essential to:

Switch off the radio to retract the aerial,

Remove wing mounted telephone antennas.

Fold down screen injounted altephone a itemias,

Fold in door mounted rear view mirrors

Note: If your vehicle is fitted with a jaguar approved cell ular telephone, you are advised to switch the telephone and the ignition OFF

After leaving the car wash, switch on the windscreen wipers immediately to remove water and prevent a build up of waxilaguar Screen Clean Paste helps prevent this.

### Removing Grease and Tar

Remove grease or tar with methylated spirit (alcohol). White spirit is also effective, but must not be applied to rubber, particularly the windscreen wiper blades.

### 2-2 Cleaning

#### Glass Surfaces

To avoid scratching glass surfaces, **do not** clean dirty glass with **dry** paper or cloth. Use clean, warm water and a chamois leather which is reserved for glass only.

The following products will ensure glass surfaces and windscreen wiper blades are kept in good condition

Jaguar Screen Clean Paste Apply to the exterior of the windscreen only to ensure effective operation of the windscreen wiper blades.

Jaguar Glass Cleaner - Interior and exterior of all other surfaces.

Jaguar Screen Wash - Washer reservoir additive

Jaguar De-Ider, ide scraper, anti-mist wipe cloth – for use in adverse weather conditions.

#### Note:

- Renew the wiper blades when worn to prevent scratching.
   Clean regularly with a mild detergent solution.
- The windscreen should be cleaned with Jaguar Screen Clean Paste at every service interval

### Under Hood Cleaning

Under hood cleaning using high pressure hoses or steam cleaners should only be carried out by a Jaguar Dealer. The electronic control modules and fuse boxes could be damaged by indiscriminate use of cleaning equipment.

### Convertible Top Fabric

#### Caution:

- Automatic car wash brushes and detergents may damage the fabric.
- Do not use spot cleaners, chemical dilutants or any organic cleaners. If in doubt, contact your Jaguar dealer.

To maintain the appearance and condition of the convertible top, the recommendations given below should be followed. This is of particular importance in the case of light coloured tops.

Do not leave the top in the open (folded) position for longer than is necessary, as in certain circumstances permanent soiling along the folds may occur

Cleaning. Every 1000 miles (1600 km) vacuum clean and wash the convertible top using the laguar Soft Top Cleaning Kit, carefully following the instructions enclosed.

**Reproofing:** Every 5000 miles (8000 km) reproof the top using the solution in the cleaning kit, carefully following the instructions enclosed.

### Paint Chips

Scratches and chips should be touched in before weathering action begins. Inspect the paintwork immediately after the vehicle has been washed.

### Polishing Paintwork and Chromium Plating

For maximum protection against road dust, salts, industrial fallout etc., it is recommended that the vehicle is polished regularly using jaguar Polish, Chrome Polish and a Polishing Cloth

### Alloy Road Wheels

All oy wheels have an anti-corrosion protective coating, which should not be damaged.

Wash the wheels at two week intervals to avoid an accurrol particles which could become embedded in the wheel surface

In saity conditions the wheels should be cleaned weekly.

### Chromium-plated Alloy Road Wheels

It is recommended that chromium-plated a loy road wheels are cleaned using Jaguar Vehicle Shampoo and Chrome Polish

Caution: Do NOT use proprietary wheel cleaners.

#### Aerial Care

Regular cleaning with a special aerial cleaner will ensure smooth and reliable operation of the aeria.

Always wipe the aerial in an upwards direction.

Lubricate using an aerial maintenance wipe cloth.

In freezing conditions check that no ice has formed over the top of the aerial, which could prevent it being raised and cause damage to the motor

The Jaguar Aenal Cleaning Kit contains the necessary maintenance items.

## 2-4 Cleaning

#### Interior Care

Brush and clean the interior regularly. Use a vacuum cleaner where possible to remove all dust from the interior and trim.

### Carpets

Marks or stains can be removed by gentie scrubbing with a weak solution of soap and warm water.

For more stubborn stains a commercially available carpet cleaner should be used. See your jaguar Dealer for advice

### Headlining

Remove dust in the headlining with a vacuum cleaner. To remove stains, rub briskly without pressing, using a lint-free white cloth moistened with methylated spirit.

### Leather Upholstery

Dust and dirt can penetrate the pores and creases of leather, causing surface wear and brittleness. Clean regularly to maintain the leather in first class condition

Wipe the surfaces using a cloth dampened with warm soapy water avoid flooding. Rinse with clean water Allow to dry and rub with a clean soft cloth. Use Jaguar Leather Cleaner for heavily solied areas.

Use only mild non-caustic soap. Do not use petroi, detergents or household cleaners, as these could damage the leather

The appearance and durability can be improved by using Jaguar Hide Food and Jaguar Leather Conditioner.

#### Introduction

The few maintenance tasks and checks required to ensure reliable and safe day to day running of the vehicle are detailed in this section.

Only use lubricants and fluids which meet the specifications recommended by Jaguar Cars L mited.

### Regular Checks

In the interests of safety and reliability, it is advisable to carry out the following checks at the recommended intervals, and always before starting on a long journey.

### Datty

Check that there is sufficient fue for the journey intended, particularly at hight and before entering motorways.

Check that there is adequate windscreen washer fluid for the intended journey.

### Weekly

Tyres – Check the tyres, including the spare, for condition and pressure. See Section 6 for the recommended tyre pressures.

**Lights** Check that all exterior lights and direction indicators function correctly and that the lenses are clean.

**Engine Oil** • With the vehicle standing on level ground, check the oil level and top up if necessary with oil of the correct grade, see page 3-2, 3-3 and 3-7.

Engine Coolant With the engine cold, check the level of the coolant in the engine header tank, see page 3-2, 3-3 and 3-6. Any loss of fluid must be checked by a Jaguar Dealer

**Brake Fluid** – Check the level of the fluid in the brake fluid reservoir, see page 3-2 and 3-5. Top up if necessary with new, unused Jaguar approved brake fluid.

The brake fluid reservoir is initially nearly full, but the leve will drop as the brake pads wear. If the leve appears unusually low, location of the fluid leakage must be checked by a Jaguar Dealer.

**Power Steering Fluid** – With the engine cold check the level of the fluid in the power steering fluid reservoir, see page 3-2 and 3-5. Top up if necessary with fluid of the correct specification Any ioss of fluid should be checked by a Jaguar Dealer

**Note:** The transmission and, where fitted, the supercharger are sealed for life units and do not require topping up

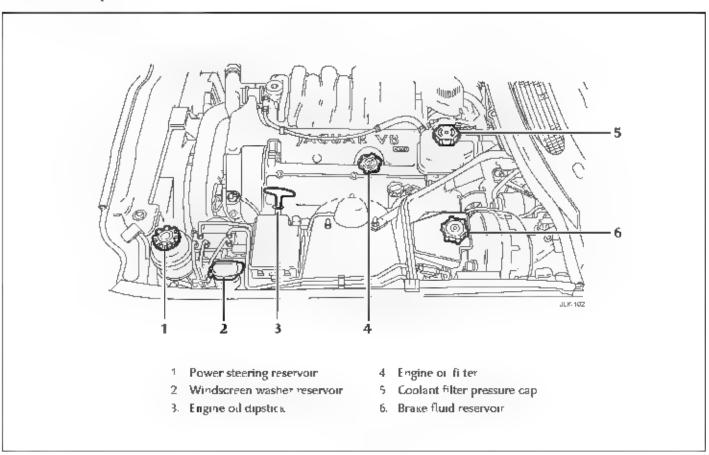
### Monthly

Windscreen Washer Top up with recommended windscreen washer fluid and clean soft water, see page 3-2 and 3-4. Check the operation of the washer Use Jaguar Windscreen Washer Fluid additive to prevent freezing.

Wiper Blades – Check the quality of the wipe if smearing or juddering is evident, clean the windscreen as detailed in Section 5 and renew the wiper blades.

### 3-2 Routine checks

### Reservoir and Dipstick Locations



### Checking and Replenishment

Check/Top Up Engine Oif Level

Check the oil level regularly with the vehicle on flat, level ground

Refer to page 3-2 for dipstick and oil filler locations.

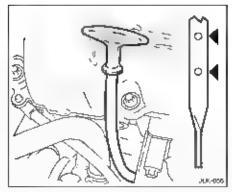
It is preferable to check the oil level after the vehicle has been standing, that is, with the engine completely cold.

If the engine has been started do not check the oil level until the engine has reached normal operating temperature

Stop the engine and wait for a minimum of two minutes to allow the oil to drain back into the sump

Remove the dipstick and wipe clean with a non-fluffy cloth. Replace fully, then withdraw the dipstick

If the oil level is on or above the lower of the two dots on the dipstick then no additional oil is required.



fithe or level is below the lower of the awo dots, remove the cill filler cap and add 1 tre of the correct specification oil aubricant specifications are detailed on page 3-7.

Refit the filler cap and hand tighten securely.

The supercharger where fitted) is of filled for life and does not require any checks to be made by the driver

#### Checking Coolant Level

The coolant level must only be checked when the engine is COLD

See page 3-2 for coolant header tank location and page 3-6 for the coolant specification.



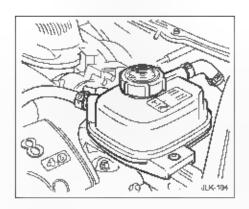
#### WARNING:

Do not remove the coolant expansion tank filler/pressure cap while the engine is hot. If the cap must be removed, protect the hands against escaping steam and slowly turn the cap anti-clockwise until the steam pressure starts to escape. Leave the cap in this position until the all the pressure has escaped, and then remove the cap completely.

The coolant level should be up to the bottom of the filler neck of the header tank. If persistent coolant loss is noticed have a laguar Dealer investigate the cause immediately.

Refit the filler cap and hand tighten securely.

### 3-4 Routine checks



### Topping up Caution Anti-freeze will damage paintwork. Avoid spillage

With the engine cold, top up the header tank until the coolant is level with the bottom of the filler neck.

Use the correct concentration of Jaguar Anti-treeze/Coolant, Corrosion Inhibitor as detailed on page 3-6

### Check/Top Up Windscreen Washer/ Powerwash Reservoir

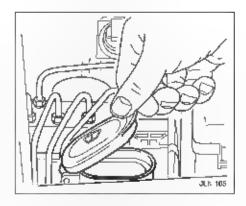
See page 3-2 for windscreen washer reservoir location.

The washer reservoir contains the fluid for the windscreen washers and the headlamp powerwash system (where fitted)

Fill to just below the neck with Jaguar Windscreen Washer Fluid diluted with clean, preferably soft water as specified in the maker's instructions on the bottle

#### Do not over-fill.

Note: Using a non-approved fluid may adversely affect the rubber of the windscreen wiper blades, resulting in neffectual and noisy wiping.



#### **Cold Weather Precautions**

To prevent damage to the pump under freezing conditions, use recommended Jaguar Windscreen Washer Fluid.

#### Caution:

- Windscreen washer fluid is toxic and in concentrated form is flammable.
- Under no circumstances must cooling system anti-freeze be used, since this will damage the paintwork.

After adding screen washer fluid to the reservoir, operate the pump until untreated water is purged from the pipes and jets.

Check/Top Up Brake Fluid Reservoir



### WARNING:

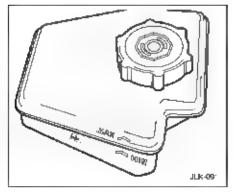
The brake fluid level will drop as the brake pads wear If the level is very low report the loss of fluid to the nearest Jaguar Dealer Do not drive the vehicle until the cause is rectified. Caution:

- While handling brake fluid, take extreme care; brake fluid must not contact the vehicle paintwork.
- 2. Always use fresh, clean fluid from a new container. Never introduce: used brake fluid into the system.

See page 3-2 for brake fluid reservoir location.

The fluid is visible through the translucent casing of the reservoir and must be maintained at the 'MAX' mark.

If necessary, top up as follows:



Before removing the cap, clean the reservoir and cap thoroughly with a lint. free cloth to ensure that no foreign matter. enters the reservoir

Unscrew the filler cap and top up to the MAX level using new Jaguar brake fluid, spec fication JAGLAR ITT SUPER DOT 4 This is a non-mineral polyglycol based. brake fluid

Refit the filler cap securely.

Should any brake fluid be spilt, replace the cap on the reservoir before rinsing it away, to avoid contamination

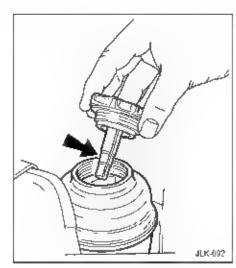
Check/Top Up Power Steering Fluid Reservoir

Caution: It is imperative that the power steering system does not become contaminated in any way. Always dispense fluid from a fresh sealed container and clean the area around the reservoir neck both before and after topping up. Never return drained fluid to the system.

See page 3-2 for power steering fluid. reservoir location.

Check the fluid level when the engine is COLD' and the vehicle is on a flat, levesurface.

### 3-6 Routine checks



Wipe clean and remove the filler cap from the reservoir; take great care to prevent any foreign matter from entering. Check that the fluid level is between the marks on the dipstick

If necessary, top up with DEXRON II fluid, DO NOT OVERFILL

Should the level be very low, report the loss of fluid to the nearest Jaguar Dealer

### Cooling System

The cooling system should be filled or topped up with a mixture of 50% plain water and 50% jaguar Anti-freeze. Coolant and Corrosion inhibitor conforming to specification.

WSS M97B44-D

coloured orange, Extended ...fe Coolant. This anti-freeze mixture gives frost protection for temperatures down to 40°F =40°C).

Caution: Do not mix with anti-freeze of a different specification as this would damage the cooling system.

### Engine Anti-freeze

Anti-freeze, when used at the correct concentration, not only protects the engine from frost damage in winter, it also provides all year round protection against internal corrosion.

Use only anti-freeze to specification, WSS M97B44-D, coloured orange, Extended Life Coolant, inferior quality anti-freeze may be meffective in maintaining adequate frost and corrosion protection to the cooling system.

The coolont solution may remain in the cooling system for five years or, 150 000 miles (240 000 kinometres) after which the cooling system should be drained, flushed and refilled.



#### WARNING:

Do not allow anti-freeze to make contact with skin or eyes. If this should happen, rinse the affected area immediately with plenty of water.

### Engine Block Heater

If the vehicle is to be started at temperatures of ~22°F (~30°C) and lower, it is recommended that an engine block heater is fitted and used. Failure to do so may result in damage to the drive belt.

For further information consult your Jaguar Dealer

Caution: The fitting of an engine block heater does not eliminate (lessen) the need for anti-freeze under freezing conditions.

### Recommended Engine Oil

### Oil Specification

### API SJ / EC and ILSAC GF 2.

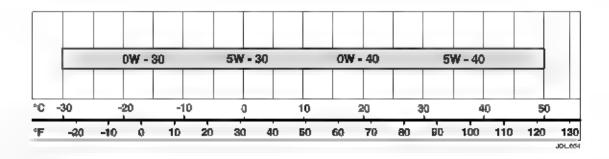
When topping up between of changes, make sure that you use oil that has the correct quality level (API service) and viscosity grade. Your vehicle's warranty may be invalidated if damage is caused by use of improper engine or

When the or level is at the lower dipstick mark, add one quart one fitre) of engine oil.

#### SAE Viscosity Rating

It is recommended that you use only approved engine oils to meet the SAE Viscosity Range / Ambient Temperature Scale shown below. For maximum fuel economy. 5W/30 oil is recommended.

### Recommended SAE Viscosity Range / Ambient Temperature Scale



## 3-8 Routine checks

Capacities		
	US Quarts	Litres
Engine Oi - without of cooler	6.9	6.5
- w th of cooler	7.7	7,3
The rear axle (final drive unit), automatic transmission unit and supercharger (where fitted) are o'll filled-for-life and will not normally require to be topped up.		
Cooling system, including reservoir and climate control		
Initial fill 4.0 litre normally aspirated	10.0	9 5
Initial fill 4.0 litre supercharged	12.2	11,5

7,0

7.4

### Capacities - Fuel Tank

Windscreen Washer Reservoir

	US Gallons	Litres
Indicated refull capacity (E to F on fuel gauge)	18 5	70,0
Unindicated capacity (Below E on fuel gauge)	1 3	5,0
Total refili capacity	19.8	75,0

#### Introduction

In the event of a flat tyre, drivers should follow closely the procedure for wheel changing and jacking given in this section. The correct jacking points and how to locate them are shown. It is important that only the correct jacking points are used.

Where vehicles have the 'Temporary Use' spare whee , drivers should be aware of the limitations of its use.

### Temporary-use Spare Wheel (where fitted)

Observe the following warmings before using the wheel.



### WARNING:

- Please note temporary use spare wheel warning label. Adhere to instructions on the label. Failure to comply can be dangerous.
- When a temporary use spare wheel is fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.
- Do not fit more than one temporary-use spare wheel and tyre assembly at one time.
- The temporary-use spare wheel must be inflated to 60 lbf/in² (410 kPa, 4,1 bar).
- Temporary-use spare wheel, maximum speed is 50 mph (80 km/h).

**Note:** Maintenance information for the temporary-use spare wheel is the same as given for normal tyres in Section 5.

### Spare Wheel and Jacking Equipment

The spare whee , jacking equipment and wheel chock are stored under the luggage compartment floor panel.

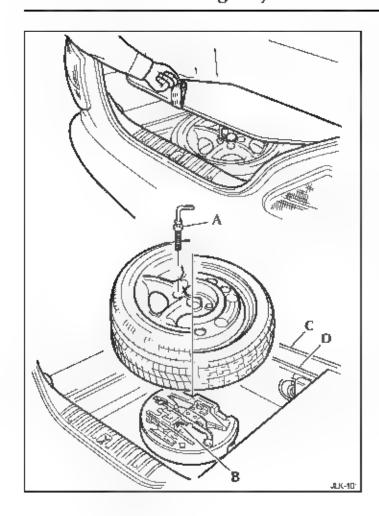
To remove the spare wheel, remove the luggage compartment floor panel and unscrew the retaining screw (see A overteaf)

The tray containing the jacking equipment kit can be removed from the luggage compartment by unscrewing the yellow secur ng bolt (see B overleaf)

The kit comprises, the tack, tack ratchet handle with socket extension: wheel nut wrench with telescopic extension; whee chock; towing eye and a wheel locking nut extractor tube and key socket (where fitted)

Note: Examine the jack occasionally, clean and grease the threads to chaure. It is always mady for an emergency.

## 4-2 Roadside emergency service



#### Spare Wheel Stowage

When the temporary-use spare wheel is being used, stow the replaced road wheel in the tuggage compartment so that it fits over the jacking equipment tray. Reposition the luggage compartment floor panel in the upper location slots (C).

When the temporary-use spare wheel is returned to the luggage compartment, position the wheel with one stud hole directly over the yellow plastic bolt. Fit the retaining screw through the stud hole into the bolt head and tighten down. Refit the luggage compartment floor panel in the lower position (D)

Note: Remove the centre badge, see illustration on page 4-3.

### Wheel Changing and Jacking

Be prepared for a flat tyre. Know where equipment is stowed and read the wheel changing and Jacking instructions carefully.

### Stopping the vehicle

Pull off the road completely, clear of all traffic and park on as level ground as possible. Switch on hazard warning lights.



It can be dangerous to change a wheel when the vehicle is on a slope or soft, uneven ground.

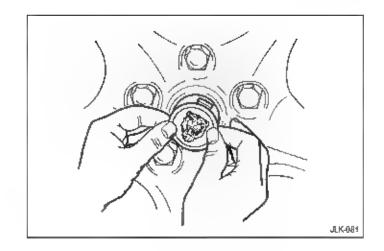
## Roadside emergency service 4-3

### Wheel Changing and Jacking (continued)

Remove the temporary-use or full size spare wheel to obtain the jack and wheel changing toots.

### Alloy wheels with centre badge

When changing wheets, carefulty remove the centre badge and transfer it to the replacement wheel (when a full size spare wheel is used).



### Loosening the wheel nuts

Always slightly toosen the wheel nuts before raising the vehicle A tabel showing correct use of the wheel nut wrench is printed on its shaft and states

WHEEL NUT REMOVAL

WHEEL NUT TIGHTEN



## 4-4 Roadside emergency service

### Wheel Changing and Jacking (continued)

### Removing locking wheel nuts (where fitted)

Some vehicles are fitted with one locking wheel nut on each wheel. These can only be removed using the extractor tube and key socket from the jacking equipment tray

The locking wheel nut is provided with a cover which makes it visually similar to standard wheel nuts. The top of the cover has an indentation (A) to aid identification

Push the extractor tube firmly over the locking whee inut cover, as shown at (B) until it is fully located.

Withdraw the extractor tube to remove the cover-

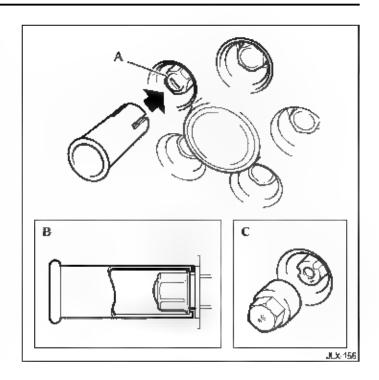
Fit the key socket over the locking wheel nut as shown at ( $\mathcal C$ )

Fut the wheel nut wrench over the key socket and loosen the tocking wheel nut

### Locking wheel nut security coding

Locking wheel nuts have a letter stamped on their upper surface. The key socket is stamped with a corresponding number. Only key sockets with the correct matching number will fit the locking wheel nut.

Should a new key socket be required, note the letter on the locking wheel nut and contact your Jaguar Dealer. Proof of vehicle ownership will be required.



### Wheel Changing and Jacking (continued)

Before lifting the vehicle



### WARNING:

Before attempting to lift the vehicle with the jack, chock one of the front wheels to prevent the vehicle from rolling when jacked up.

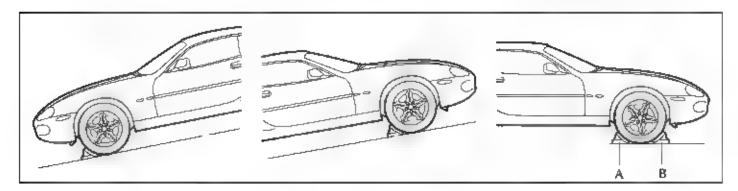
A folding wheel chock is supplied with the jacking equipment. The chock must be unfolded into a triangular form before use.

Chock the front wheel on the opposite side of the vehicle to the side being jacked up as shown below.

#### Note

- Ensure that all passengers are in a safe place clear of the vehicle.
- 2 Ensure that the jack is on firm and level ground
- 3. Firmty apply the handbrake and select position 'P' (Park) Using the wheel nut wrench with the handle extended, slacken, but do not remove the wheel nuts

VEHICLE FACING DOWN A SLOPE Chock the front of the front wheeVEH CLE FACING JP A SLOPE Chock the rear of the front wheel VEH CLE HORIZONTAL Front wheel change: Chock at A Rear wheel change: Chock at B



## 4-6 Roadside emergency service

### Wheel Changing and Jacking (continued)

### lacking



#### WARNING

Never work under the vehicle using only the Jack as a support, always use axle stands or suitable supports under the Jacking points.

Observe the instructions printed on the jack

Use the jack only for lifting the vehicle during wheel changing, and only use the jack which is stored in the vehicle.

Do not start or run the engine while the vehicle is only supported by a rack

**Note:** When one rear wheel is lifted off the ground the automatic transmission 'P' (Park) position will not prevent the vehicle from moving and possibly slipping off the jack

There are four jacking points, two each side. These are reinforced metal piates (A) attached to the sill near each wheel.

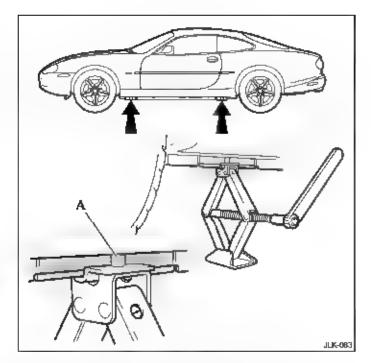
Caution: Never use bumpers or any other part of the body to lift the vehicle.



#### WARNING:

Do not attempt to lift the vehicle unless the still plate is fully engaged in the jack plate groove.

Place the jack squarely beneath the appropriate jacking point. Fit the extension socket to the jack ratchet head and fit it to the jack. Ensure that the jack plate groove is fully engaged with the sill plate.



Carefully raise the vehicle by turning the ratchet handle.

Note: Stop jacking the vehicle when the tyre just clears the ground. Minimum tyre lift gives maximum vehicle stability. Remove the wheel nuts and the wheel.

Wheel Changing and Jacking continued)

### Fitting the Spare Wheel



#### WARNING:

When using the wheel nut wrench, only use the extension for removing wheel nuts, NOT for tightening.

Fit the spare wheel and secure with the wheel nuts.

using the wheel nut wrench, lightly tighten the wheel nuts alternately using the sequence shown. Ensure that the taper on the wheel nuts is seated fully. onto the taper faces of the wheel disc.

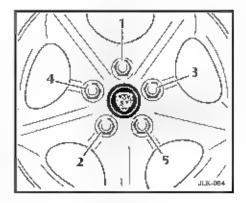
Lower the jack and with the wrench handle not extended, tighten the wheel nuts a ternately. At the earliest opportunity have the wheel nuts tightened with a torque wrench to 65 - 75 bt ft (88 - 102 Nm). Do not exceed this torque.

Remove the jack from the vehicle



### WARNING:

When the temporary use spare wheel has been fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.



### Re-fitting centre badge

Press fit the centre badge into position on the wheel

### Stowing the equipment

Remove the chock and fold flat

Stow the jack, wheel chock and tools in the jacking equipment tray. If removed, refit the tray in the luggage compartment. and secure with the yellow securing bolt.

Place the wheel over the tray and refit the luggage compartment floor panel.

Note: When the temporary spare wheel is returned to the luggage compartment, fit and tighten the retaining screw.

### 4-8 Roadside emergency service

### **Emergency Starting**

### **Rolling Start**

A start by pushing or towing cannot be achieved on a vehicle with automatic transmission

### Emergency Starting Using Jump Leads

Both the booster and discharged battery should be treated with great care when using jump leads. Always use high quality leads capable of carrying the starter current of the vehicle to be started.

Before commencing, the following precautions must be taken.

- When the battery of another vehicle is being used, ensure that the vehicles do not touch, or remove the charged battery and place near to, not on, the vehicle with the discharged battery
- 2. Ensure that both vehicles have all electrical services OFF, the handbrake is ON and the transmission is in Park
- 3. Where the jump leads are of a different colour, e.g. red and brack, use red for positive (+). This aids identification and helps to avoid crossing positive (+) to negative (-). Take extra care to avoid crossing the polarity when using cables of the same colour.

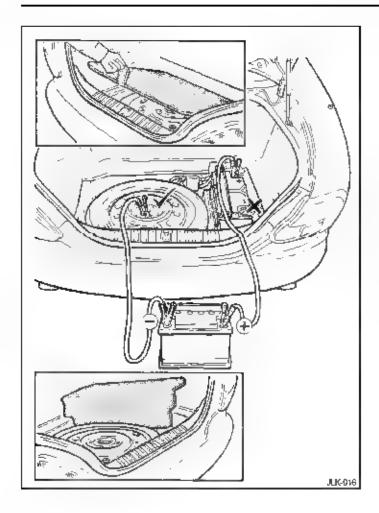
#### Cauttone

- If using a jump start vehicle, under no circumstances should the vehicles come into contact with each other.
   This could establish an earth connection, which may cause sparks and damage.
- Do not run the jump start vehicle's engine when boost starting a Jaguar Vehicle. If the jump start vehicle's engine is running and the jump leads are disconnected, damage to the Jaguar vehicle's electrical system will result.
- The booster battery voltage must not exceed 12 volts.

The following procedure must be followed exactly, being careful not to cause sparks

- Apply the handbrake, select Park and turn off all the vehicles electrical services.
- Remove the luggage compartment floor panels.
- 3. Unclip the positive (+) terminal cover
- 4. Attach one end of the red jump lead to the positive (+) termina of the booster battery and the other end to the positive terminal of the discharged battery. Make sure that a good connection is made. Do not allow the vehicles to touch

Continued



Caution: Do not connect the negative jump lead directly to the negative (-) terminal of the discharged vehicle.

- 5 Attach one end of the black jump lead to the negative (1) terminal of the booster battery and the other end to an earth point on the vehicle being started. (Use the spare whee retaining bolt as shown.) The earth point must be at least 12 notes (305 mm) from the discharged battery. Make sure that a good connection is made.
- 6. When started allow the engine to idle for five minutes before disconnecting the cables
- 7 Disconnect the black ump lead from the earthpoint and the booster battery negative (-) terminal. Disconnect the red jump lead from the positive (+) terminals of both batteries.

**Note:** Disconnection is done in the reverse order to the connecting procedure.

- 8. Refit the positive term nal cover and the floor panels.
- 9. Refit the uggage compartment floor panels.

### 4-10 Roadside emergency service

### Vehicle Recovery

The preferred vehicle recovery method is by using a flat bed transporter or rear suspended tow. The front and rear towing eyes are primarily for emergency use when towing for SHORT DISTANCES, e.g. removing the vehicle if it is causing an obstruction or for winching the vehicle onto a recovery transporter

### Transporting

If the vehicle is being transported on a trailer or vehicle flat bed transporter, the handbrake must be applied, the wheels chocked and the gear selector lever moved to position 'N' or 'D' but NEVER to 'P'.

The vehicle must be securely tied down to the transporter or trailer. Do not attach tie down hooks to the towing eyes.

### Suspended Towing

Ensure that the recovery team follow these instructions:

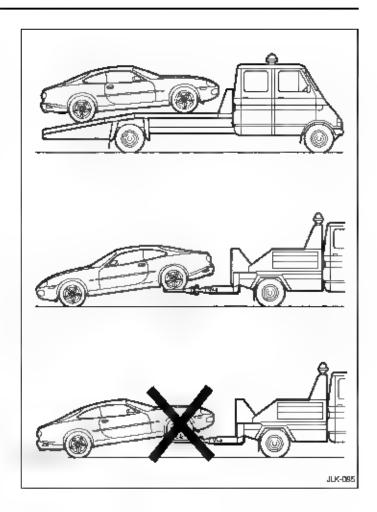
Do not tow with sling-type equipment since damage to the bodywork may result.

### Caution: Do not tow vehicle by suspending the front end.

- Remove the key from the ignition switch.
- Raise the rear of the vehicle using a 'spectacle frame type I fting device where a cradle is positioned under each rear wheel, as indicated.

#### Vehicles with Defective Automatic Transmission

The year die must be towed with the rear wheels clear of the ground



#### **Towing Eyes**



#### WARNING:

The vehicle must not be driven with a towing eye fitted to a front tow point.

Caution: The towing eyes are not suitable for 'solid bar towing'

Care must be taken to avoid damaging the bumpers and front apron.

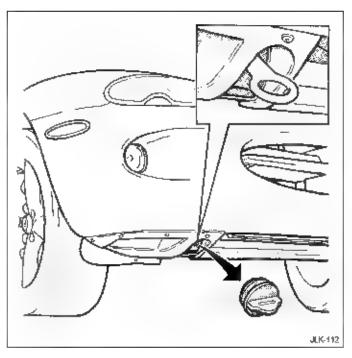
The front towing eye is detachable. When not in use it is stowed in the jacking equipment kit (see page 4-1). To use, remove the rubber branking plug from the front cross-member, on the driver's side and screw the eye into the threaded dri ling. The branking plugs are a push-fit in the towing eye threads

The rear eye is welded to the right-hand side of the luggage compartment underfloor panel.

Always obey towing regulations: In certain countries the registration number of the towing vehicle and an 'ON TOW' sign or warning triangle must be displayed in a prominent position at the rear of the vehicle being towed.

When being towed, the vehicle's gear selector lever must be in neutral (position 'N') with the ignition key turned to position '1' to release the steering lock and render the indicators, horn and brake lights operational.

Vehicles may be towed for SHORT D'STANCES (maximum 0.5 m les/0.8 kilometres) with the gear selector lever in position 'N' provided a speed of (30 mph) 48 km/h) is not exceeded.





### WARNING:

When the engine is not running the steering and brakes will no longer be power-assisted. Therefore, be prepared for relatively heavy steering and the need for greatly increased brake pedal pressure.

## 4-12 Roadside emergency service

#### **Fuses and Fuse Boxes**

Fuse failure is signalied by an inoperative circuit.

Do not fit a new fuse if damage to the wiring is found; contact a jaguar Dealer. After renewing a fuse have the circuit checked by a Jaguar Dealer.

Spare fuses and a special tool for removing the fuses are supplied underneath the electrical carrier lid in the luggage compartment

Use only the spare fuses supplied. Replace the spare with a gaguar approved fuse of the same amperage rating.

### Checking and Renewing a Blown Fuse

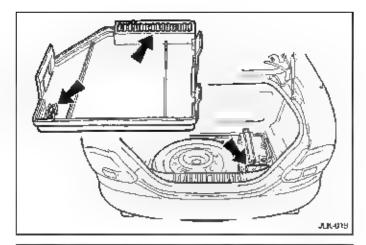
Make sure the new fuse is the correct rating (amperage). Fuses are colour coded according to the amperage and the rating is a so marked on each fuse. The colour code is as follows:

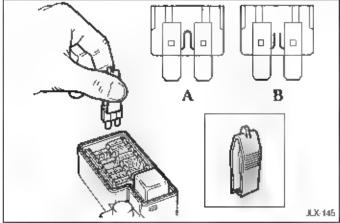
TAN	5 amp	CLEAR	25 amp
RED	10 amp	LIGHT CREEN	30 amp
GHT BLUE	15 amp	BRIGHT ORANGE	40 amp
YELLOW	20 amn		

Push the tool on to the suspect fuse and withdraw if fithe wire in the fuse is broken, the fuse has blown.

A - Fuse in good condition. B - Blown fuse.

Fit a new fuse using the tool.





#### **Fuse Box Locations**

There are five separate fuse boxes fitted to the vehicle, each one containing fuses protecting a different group of carcuits.

Some fusebox locations change with left-hand drive and right hand drive vehicles. In these cases the terms driver's side and 'passenger's side have been used.

There are two types of fusebox

type A - 18 way with one relay.

type B 22 way with seven relays.

The locations are as follows:

#### Type A Fuseboxes

- B Ingine compartment fuse box. Passenger's side within bulkhead extension.
- C Fascia fuse box Passenger's side, on the end of the fascia behind the removable pane.
- D Fascia fuse box Driver's side, on the end of the fasciabehind the removable panel

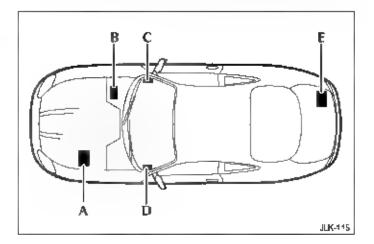
#### Type B Fuseboxes

- A Engine compartment fuse box ~ Left-hand side, behind the windscreen washer reservoir.
- F Electrical carrier fuse box ...uggage compartment



### WARNING:

- 1 Do not fit a fuse of a different amperage from that specified on the Master Label. The electrical circuits may become overloaded with the subsequent possibility of a fire.
- No attempt should be made to repair a fuse that has blown. This may cause a fire hazard or serious damage elsewhere in the electrical circuit.



## 4-14 Roadside emergency service

#### **Engine Compartment Fuse Boxes**

There is one fusebox in the main engine compartment, located on the left-hand side, behind the windscreen washer reservour Caution: When the fuse box ltd is removed, take care to protect the box from moisture, and refit the ltd at the earliest opportunity.

Remove the fusebox of by pressing the retaining lugs and offing. When refitting, press the fuse box lid in the area of the retaining age until the lid engages.

The circuits protected are listed on page 4-19

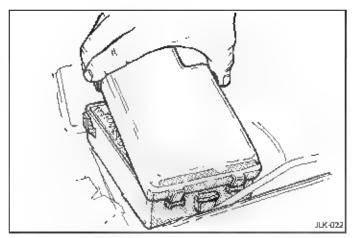
A second fusebox is situated within the bulkhead extension on the passenger's side

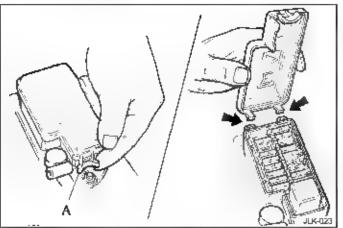
**Note:** The bulkhead extension protects electrical components from the heat generated in the engine compartment.

Remove the fusebox hid by compressing and lifting the  $U^{\prime}$  shaped latching mechanism (A).

To refit the fusebox lid, position into the slots and push down until the latching mechanism is engaged.

The circuits protected are listed on page 4-16.





#### Fascia Fuse Boxes

Fuseboxes are located at the extreme ends of the fascia, one on the driver's side and one on the passenger's side.

Pull the raised up of the cover to access the fusebox.

The circuits protected are listed on page 4-17 and 4-18

#### Luggage Compartment Fuse Box

A fusebox is located in the electrical carrier which is situated to the rear of the battery

A list of protected carculits and fuse ratings is given on the fuse allocation chart. Master Labe ) which is attached to the lid of the electrical carner

Caution: When the carrier lid is removed, take care to protect the box from moisture ingress, and refit the lid at the earliest opportunity.

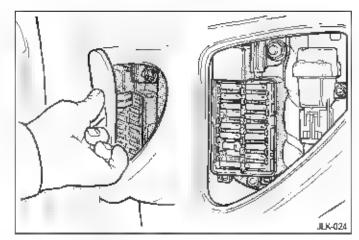
Remove the luggage compartment floor panel

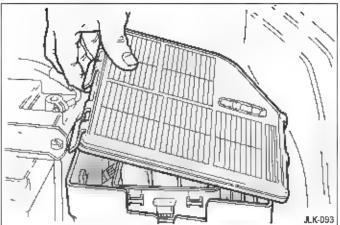
Remove the electrical carrier lid by pulling the retaining cups and pulling the lid upwards.

Spare fuses and a special tool for removing the fuses are supplied underneath the electrical carrier lid in the luggage compartment.

Reposition the lid and press down until the retaining clips engage

The circuits protected are isted on page 4-20





# 4-16 Roadside emergency service

## **Fuse Ratings and Circuits**

Engine Compartment Fusebox Passenger Side - Within Bulkhead Extension

Fuse No	Ratings (amps)	Circuit
1	30	HO2 sensor heaters.
2	20	Intercooler water pump (Supercharged).
3	25	Starter solenoid
4	S	Engine control module, transmission control module
5	10	Injector supply.
6	í	Not used.
7		Not used.
В	10	Air conditioning compressor clutch.
9	30	Throttle motor
10	5	Engine control module, Park/Neutral switch, cruise control VSV 1 and 2 (where fitted).

Fuse No	Ratings (amps)	Circuit
11	10	Adaptive cruise control smartbooster & relay
12	10	A.r flowmeter, WT solenoids, radiator fans control module.
13		Not used.
14	10	HO2 sensor heaters relay (where fitted). FGR valve (where fitted), FVAP valve lighthor coils relay. throttle motor relay. AC compressor clutch relay.
15	30	Windscreen left hand heater
16	5	Engine control module cooling fan-
17	30	Windscreen right-hand heater
1.8	10	gnition coils supply.

B on location Illustration, page 4-13.

### Fascia Fusebox - Driver's Side

Fuse No	Ratings (amps)	Circult
1	20	Driver's seat control module.
2	10	Door mirror heaters.
3	30	Windscreen wiper motor relays.
4	10	Airbag.
5	15	Body processor module (5 V logic and lamps:
6	5	Centre console switches, key transponder module, convertible top header console, rain sensing.
7	15	Body processor module (battery supply for solenoids, lamps and motors).
8	5	Steering column ad ust switch, driver's seat switchpack, driver's seat belt backle switch
9		Not used.
10	5	Diagnostic connector (ign tion).
11	20	Air cond tioning drivers blower motor

Fuse No	Ratings (amps)	Circuit
12	10	Door mirror heaters relay. Air conditioning: compressor lock, control module ignition supply, blower motor relays, power steering control module.
13	5	Diagnostic connector (battery)
14	10	Cruise control ON/OFF switch, main instrument cluster catalytic converter over temperature warning control module.
15	25	Driver's door control module, transit relay.
16	5	Electrochromic interior mirror (where fitted), windscreen heater relay, gear selector, transmission mode switch, linear switch
17	10	Accessory sockets.
18	5	Main instrument cluster (includes clock)

D on location il ustration, page 4-13.

# 4-18 Roadside emergency service

Fascia Fusebox Passenger's Side

Fuse No	Ratings (amps)	Circuit
1	20	Passenger seat control module.
2	10	Door locking actuators.
3	_	Not used.
4	5	Door switchpacks, door locking,
5	5	Telephone transceiver and RT connector
6	10	Air condition ag control module.
7	20	Body processor module (column motor power)
В	5	Passenger seat switchpack, passenger seat belt buckle switch.
9	10	Radio/cassette head unit
10	5	Telephone handset and transceiver

Fuse No	Ratings (amps)	Circuit
11	20	Air conditioning passenger's blower relay.
12	5	Radio/cassette แทเเ
13	-	Not used.
14	20	Cigar ighter
15	25	Passenger door control module, transit relay connector
16	5	Navigation
17	15	Body processor module (light high power sockets).
18	10	Dimmer control module

C on location histration, page 4-13.

## Engine Compartment Fusebox Left-hand Side

Fuse No	Ratings (amps)	Circuit
1	10	Transmission control module
2	5	Generator regulator.
3	5	Security sounder headlamp leveling motors, tread amp levelling switch lighten +Ve centre console switchpack, adaptive craise control.
4	5	ABS control module.
5	10	Starter relay, engine control module.
b	10	Kight-hand dipped beam headlamp.
7	30	Power wash pump.
8	10	Left-hand d pped beam head aπp.
9	10	Security sounder
10	-	Not used.
11	10	Right hand horn

Fuse No	Ratings (amps)	Circuit
12	30	Cooling fans series/paralie .
13	10	Left-hand horn.
14	30	Cooling fans para lel.
15	10	Air conditioning coolant pump
16	30	ABS control valves
17	15	Front fog lamps.
18	30	ABS pump motor
19	10	Right-hand main beam headlamp.
20	_	Not used.
21	10	Left hand main beam headlamp
22	5	Adaptive cruise control module

A on location Illustration, page 4-13

# 4-20 Roadside emergency service

## Luggage Compartment Fusebox Efectrical Carrier

Fuse No	Ratings (amps)	Circuit
1	5	Coupe: Reversing lamps.
		Convertible: Reversing lamps, rear quarter windows raise/lower relays.
2	20	Adaptive damping control module.
3	5	Fusebox ignition +Vel bulb monitoring control module S/C fuel pump relay
4	5	Adaptive damping control module.
5	5	Airbag.
6	5	Right and left-hand stop tamps via bulb monitoring control module.
7	20	Fuel pump
8	5	High mounted stop lamp.
9	10	Antenna motor
10	10	Security and locking control module.
11	10	Accessory sockets
12	-	Coupe: Not used.
	20	Convertible: Right-hand rear quarter window lift motor

Fuse No	Ratings (amps)	Circuit
13	_	Not used.
14	-	Coupe: Not used.
	40	Convertible: Raise and lower pump for convertible top.
15	10	Fog lamps.
16	5	Navigation.
17	25	Heated rear screen
18	30	Power amplifier
19	5	Right-hand tail, left hand and right-hand number plate lights.
20		Coupe: Not used.
	20	Convertible: Left-hand rear quarter window ift motor
21	5	Left-hand tail, left-hand and right-hand sidemarker lights.
22	20	S/C fuel pump.

F or location illustration, page 4-13.

## Control Modules - Identification and Location

Control Module	Location
Adaptive Damping	Luggage compartment, rear, right of the spare wheel we'll.
Airbag (Supplementary Restraint System)	Fascia right-hand side. Behind the glove compartment liner or the driver's knee boister
Anti-rock Braking System and Traction Control	Engine compartment, dr ver's side Mounted below the ABS hydraulic control unit
Body Processor	Fascia, mounted on passenger airbag bracket
Cl mate Contro	Fascia, right-hand side of the cumate control unit.
D mmer	Fuse box on the right-hand end of the fascia.

Control Module	Location
Driver's Door	Driver's door, forward of the glass guide above the speaker
Driver's Seat	Driver's seat cushion frame.
Engine Management	Engine compartment, passenger side, within bu khead extension.
Passenger's Door	Passenger's door, forward of the glass guide above the speaker
Passenger's Seaf	Passenger's seat cushion frame
Security and Locking	Luggage compartment electrical carrier to the rear of the battery.
Transmission	Engine compartment, passenger side. within buildhead extension.

## 4-22 Roadside emergency service

## Relay Identification and Location

The following chart dentifies and gives locations for the relays which control the vehicle's electrical services. The relays have coloured harness connectors and cases for identification. Where the connector colour differs from the case, both colours will be isted (connector colour first).

Relays, where not mounted in a fuse box, are arranged in groups of three. Each group has a black plastic cover, which slots into the harness connector and can be easily removed for access.

Location	Functions	Case Colour
Engine compartment fusebox, left-hand side, to the rear of the windscreen washer reservoir	Layout as diagram R1 Air conditioning water pump. R2 Front fog lamps. R3 Main beam headlamps. R4 Power wash (where fitted). R5 Dipped beam headlamp. R6 Horn. R7 .gnitton.	Brown Brown Brown Brown Brown Brown Brown
Luggage compartment fusebox to the rear of the batery, under the electrical carrier lid.	Layout as diagram  R1 Rear fog lamps.  R2 Heated rear window  R3 Tail and number plate lights.  R4 File pump.  R5 Stop lamps.  R6 Accessory sicket (Dealer fit option).  R7 Ignition.	Brown Brown Brown Brown Brown Brown Brown

# Roadside emergency service 4-23

## Relay Identification and Location (continued)

Location	Functions	Case Colour
Luggage compartment to the rear of the battery, under the electrical carrier lid.  Note: Micro relays operate rear quarter window functions.	Right to left:  Rear quarter windows up (nearest) and down, right-hand side.  \$\infty C\text{ secondary fuel pump.}  Rear quarter windows up (nearest) and down, left-hand side.  Convertible too lower.  Convertible too raise.  \$\infty \text{pare.}	2 x Black Brown 2 x Black Black Black
Driver's side fuse box at the end of the fascia	ignition	Brown
Passenger's side fuse box at the end of the fascia	Auxilhary.	Brown
Engine compartment passenger side fuse box, with n bu khead extension.	Engine management system control.	Brown
Engine compartment right-hand side, within bulkhead extension	From front of vehicle to rear: Starter Left-hand from screen heater (If fitted). Right-hand front screen heater (If fitted). Intercooler water pump HO2 sensor heaters relay.	Brown Brown Brown Brown Brown

# 4-24 Roadside emergency service

## Relay Identification and Location (continued)

Location	Functions	Case Colour
Engine compartment passenger side, within bulkhead extension.	Looking forward from right to left: gnition coil. Throttie motor power Pl main (injectors).	Brown Brown Brown
Engine compartment left-hand side within bulkhead extension.	From front of vehicle to rear: Air conditioning cutch. Wiper on/off. Wiper fast/slow	Brown Black Black
Behind the fascia on the left-hand side as viewed from the rear of the car	Door mirror heater: micro-relay	Black
Behind the fascia on the right-hand side as viewed from the rear of the car	From front of vehicle to rear:  Door lock micro-relay  Air conditioning solate: micro-relay	Black Black
Footwell, mounted on the left-hand side of the transmission tunnel.	From front of vehicle to rear: Left-hand blower: micro-relay Right-hand blower: micro-relay	Black Black
Engine compartment left hand side, below the headlamp.	Cooung fans large relay.	Black

#### Introduction

Owners are responsible for ensuring that the vehicle is regularly serviced at the correct mileage/time intervals as specified in the 'Maintenance Schedules' The first part of this section deals with regular servicing

The condition of the tyres is of the utmost importance. Advice about tyre wear and correct usage is given in this section. If in any doubt about the condition of your tyres, contact a Jaguar Dealer

## Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and the vehicle meets its. specification.

Regular maintenance and servicing is the responsibility of the owner laguar Dealers will be pleased to arrange periodic servicing in accordance with the JSA/Mexico 'Passport to Service' Booklet or Canadian 'Club Jaguar' Warranty and Benefits Information Booklet, Reter also to section 1. Scheduled Maintenance:

Failure to implement maintenance at the recommended. intervals could result in deterioration of vehicle performance and possible infringement of regulations

## Tyres

Tyres of the correct type and dimensions, with correct cold inflation pressures are an integral part of every vehicle's design Regular maintenance of tyres contributes not only to safety, but to the designed function of the vehicle. Road-holding, steering and braking are especially vulnerable to incorrectly pressurised, badly fitted or worn tyres.

Tyres of the correct size and type but of different make have widely varying characteristics. It is therefore recommended that Jaguar approved tyres (see Section 6: Wheel/Tyre Data) are fitted to a I wheels.

Do not interchange tyres from side to side, front to rear or vice versa as tyre wear produces characteristic patterns depending upon their position and, if the position is changed after wear has occurred, the performance of the tyre will be adversely affected. Note:

- On certain models the rear wheel and tyre assemblies will be larger than the front. These larger assemblies must never be fitted to the front of the vehicle.
- On certain models the tyres specified may be of a directional type. These tyres must be fitted so that when viewed from the side of the vehicle the tyre 'direction of rotation' arrow points in the vehicle direction, when positioned at the top of the tyre

## Tyre Repair

It is recommended that damaged tyres are discarded and new tyres fitted. They must not be repaired in view of the high performance capability of the vehicle

## 5-2 Vehicle maintenance

#### Tyre Use After Vehicle Storage

After a long period of a vehicle standing, tyres may become totally distorted with a flat area. This will cause an uneven ride for a few miles until the tyres have warmed up and the 'flat' rounds off.

However, to reduce the effects of flat-spotting, the tyres of a stored vehicle may be inflated to 44 lb/in² (300 kPa).

Refer to Section 6, Recommended Tyre Pressures for normal operating pressures.

#### Tyre Size, Type, Pressures

The tyre pressures recommended (see Section 6: Wheel/Tyre Data) provide optimum ride and handling characteristics for all normal operating conditions. The pressures should be checked, and connectly set, if necessary, once per week. This should be done with the tyres cold. Tyre temperatures and pressures increase when running. Deflating a warm tyre to the recommended pressure will result in under-inflation which may be dangerous.

A slight natural pressure loss occurs with time. If this exceeds 2 lbf/in² (14 kPa) per week, the cause should be investigated and rectified.

t is an offence in many States and certain other countries to drive a vehicle with tyres that are not inflated in accordance with the vehicle's proper use.

A vehicle fitted with winter tread tyres must only be driven at speeds below the figure mouided into the tyre's side-wall fine figure is shown, drive only at moderate speed

#### Tyre Renewa!

When renewal of tyres is necessary it is preferable to fit a complete vehicle set. Should either front or rear tyres only show need for renewal, new tyres must be fitted, as axle sets, to replace wormones.

Note: After new tyres have been fitted the wheels need to be dynamically balanced.

The radial ply tyres specified are designed to meet the high-speed performance capability of this vehicle.

Only tyres of identical specification as shown in Section 6: Wheel/Tyre Data must be fitted. Do not fit tyres with a different tread pattern, size or speed rating.

#### Damage

Excessive local distortion can cause the casing of a tyre to fracture and may lead to premature failure. Tyres should be examined especially for cracked walls, exposed cords, etc. Flints and other sharp objects must be removed from the tyre tread, if left in they may work through the cover. Clean off any oil or grease contamination by using a suitable cleaner.

Caution: Do not use paraffin (kerosene), which has a detrimental effect on rubber

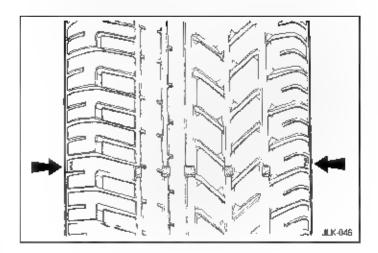
#### Wear

All tyres fitted as original equipment include tread wear indicators (TWI) in their tread pattern. When the tread has worn to a remaining depth of 0.063 inch (1,6 mm) inch the indicators. appear at the surface as bars which connect the tread pattern. across the full width of the tyre

It is illegal in many States and certain other countries to continue to use tyres after the tread has worn to less than 0 063 inch (1,6 mm) over three quarters of the width and the entire circumference of the tyre

It should be noted that the properties of many tyres after. progressively with wear in particular the 'wet grip' and aquapianing resistance are gradually but substantially reduced. Extra care and speed restriction should therefore be exercised on wet roads as the effective tread depth diminishes.

Incorrect wheel a ignment will accelerate tyre wear. Fins on the inner or outer edges of the tread pattern are caused by excessive toe-in or toe-out respectively. As fins may also be caused by high cornering speeds or road camber, it is advantageous to have the cause detected by having the wheel a ignment checked.



## 5-4 Vehicle maintenance

#### Snow Chains and Spikes Spiders

Snow chains, of the recommended type, may be fitted only when using 17 inch roadwheels with 245/50 ZR17 tyres. Spikes spiders may be fitted up to a maximum of 18 inch diameter roadwheels. Snow chains or spikes spiders must be fitted to the rear wheels only. Contact your laguar Deater for details and availability of approved snow chains or spikes spiders.

**Note:** Traction control of fitted) MJST be switched OFF when using snow chains or spikes spiders.

The maximum speed when using snow chains or spikes spiders is 30 mph (48 km/h

Remove the snow chains or spikes spiders immediately the roads are clear of snow.

Ensure the fitting instructions supplied with the snow chains or spikes spiders are kept in a safe place, for example, the Venicle Care, iterature pack

#### Care of Wheels

The wheels are covered with a protective coating. To prevent corrosion it is essential that this coating is not damaged

When removing or fitting tyres always advise the tyre fitter to treat the wheels with great care and to only use equipment with spigot or stud hole clamping. The equipment must not have any moving parts which contact the wheel, and tyre levers must not be used.

Always ensure that the wheel nuts are fully seated before finally tightening the nuts in alternate sequence.

#### United States Department of Transportation/Uniform Tyre Quality Grades.

The following information relates to the tyre grading system developed by the Nationa Highway Traffic Safety Administration which will grade tyres by tread wear, traction and temperature performance

#### Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tyre. when tested under controlled conditions on a specified government test course. For example, a tyre graded 150 would wear one and a half (11/2) times as well on the government course as a tyre graded 100. The relative performance of tyres depends upon the actual conditions of their use however, and may depart sign ficantly from the norm due to variations in driving habits, service practices and differences in road characteristics and cumate

#### Traction A, B, C

The traction grades, from the highest to the lowest are A, B and C, and they represent the tyre's ability to stop on wet. pavements as measured under controlled conditions on specified government test surface of asphalt and concrete. A tyre marked 'C' may have poor traction. performance



### WARNING:

The traction grade assigned to this tyre is based on braking (straight) ahead) traction lests and does not include cornering (turning) traction.

## Temperature - A, B, C

The temperature grades 'A' (the highest), 'B' and 'C' represent the tyre's resistance to the generation of heat and lits ability to dissipate heat when tested under contro led conditions on a specified ndoor laboratory test wheel Sustained high temperature can cause the material. of the tyre to degenerate and reduce tyre ife, and excessive temperature can lead to sudden tyre failure.

The grade 'C' corresponds to a level of performance which all passenger cartyres must meet under the Federal Motor Vehicle Safety Standard No. 109

The Grade 'B' and 'A' represent higher levels of performance on the laborator test wheel than the minimum regulred by law.



#### WARNING:

The temperature grade for this tyre is established for a tyre that is properly inflated and not overloaded. Excessive speed, under-inflation or excessive loading, either separately or in combination, can cause heat build-up and possible tyre facture.

## 5-6 Vehicle maintenance

#### Battery

A low maintenance battery specifically designed for use with this vehicle is fitted in the luggage compartment

under normal operating conditions the battery requires minimal maintenance. However in hot weather conditions it is advisable to check the battery electrolyte levels at regular intervals.



#### WARNING:

- The cell plugs and vent pipe must be in place at all times when the battery is in the vehicle. Failure to fit, or incorrect fitting of these items is potentially hazardous.
- To avoid injury do not use an open flame or cause an electric spark when checking the battery. Hydrogen gas generated by the battery is flammable and may explode.
- Do not connect any 12 volt equipment (for example, a 12 volt lead lamp), directly to the battery terminals. Use the cigar lighter socket for temporarily connecting Jaguar approved accessories.
- Do not let battery acid come into contact with skin or eyes, if you get electrolyte in your eyes or on your skin, immediately rinse with cold water and consult a doctor.

#### Cautions

- Switch off current before disconnecting battery terminals. Always disconnect the earth terminal first and reconnect last.
- Do not let battery acid come into contact with painted surfaces or fabric.

The exterior of the battery should be occasionally wiped clean to remove any dirt or grease.

If a new battery is to be fitted, it must be the same type as the original. The use of unapproved batteries is not recommended and could invalidate the vehicle warranty.

#### Note:

- 1 The service I fe of the battery is dependent on its condition of charge. It must always he sufficiently charged for the battery to last an optimum length of time.
- We recommend that the battery charge is checked frequently if the vehicle is used mostly for short distance trips, or if it is not used for long periods of time

#### Generator

To prevent damage to the generator, do not run the engine while the battery or any of the charging circuit cables are disconnected

The generator has polarity-sensitive components that may be irreparably damaged if subjected to incorrect polarity. Ensure that the battery earth lead is always connected to the battery negative (-) terminal.

### Check/Top Up Battery Electrolyte

Note: In normal climates this must be carried out at least once a year in hot weather/climates the electrolyte level. must be checked at least every three. months.

Remove the luggage compartment floor panel and the right-hand side panel.

Unscrew the six cell plugs. Check that the electrolyte is level with the plastic level indicator (A) if necessary, top up with distilled water but do not overfill. If i lumination is required, use a hand-heid flash ight to inspect the electrolyte leve .

Refit the six cell plugs Refit the floor panels.

## **Battery Charging**



Batteries produce combustible gas (hydrogen) when being charged. The battery must be removed from the vehicle before charging commences.

#### To disconnect the battery, refer to Battery Lead Disconnection on page 5-8

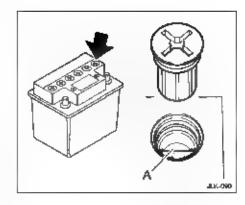
When charging the battery ensure that the charge voltage is the same as the nominal voltage of the battery

Switch off the charger before connecting or disconnecting terminal connections to avoid sparks and short circuits.

Ensure that the charger positive (+) lead is connected to the positive (+) term nal of the battery and the negative (-) lead is: connected to the negative - terminal of the bottery.

Do not remove or loosen any of the cell. plugs when charging the battery.

Check, and if necessary top-up the electrolyte level when the battery is fully charged.



#### Clean and Grease Battery Connections

Disconnect the battery leads as detailed in battery disconnection on page 5-8.

Clean the battery posts and coat the post bases with petroleum jelly.

Reconnect the battery leads as detailed in battery connection on page 5-8.

## 5-8 Vehicle maintenance

#### **Battery Lead Disconnection**

**Note:** Upon battery disconnection, both trip computer memories (A and B) will be erased. On reconnection the radio will require recoding and the clock will need to be reset.

Remove the luggage compartment floor panel and the right-hand side panel (where fitted).

#### Caution:

- Under no circumstances should a battery be disconnected whilst the ignition circuit is live, as permanent damage to the instrument pack may occur.
- Leave windows partially open if access to the vehicle interior is required (automatic window drop for door opening will not function with battery disconnected).
- Disconnect the negative lead (earth terminal) first onclip the battery positive terminal cover

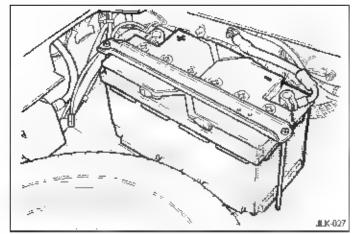
S acken the negative lead pinch boit (10 mm spanner required) and disconnect the negative (-) battery lead. Stacken the positive lead pinch boilt and disconnect the positive (+) battery lead.

### **Battery Lead Connection**

Whenever either or both battery cables are disconnected, a **minimum of 30 seconds MUST** elapse between disconnection of the first cable and reconnection of the last cable

A 'clean' final reconnection must always be made. Should the cable make temporary contact only, wait another 30 seconds before making the final reconnection.

Caution: Do not overtighten the pinch boits.



Connect the **positive** (+) lead, tighten the pinch bolt and clip the positive term nal cover on the battery.

Connect the negative (-) lead and tighten the pinch bort Refit the floor panels.

After the battery has been reconnected and the ign tion switch is turned to position 'II', the message centre display will initially show an erroneous reading i.e. —————. This will remain until after the bulb check sequence, when the correct recorded mileage will be displayed.

This is a normal function of the instrument pack.

### **Battery Lead Connection** (continued)

Note: After battery disconnection, the door windows need to be reprogrammed to 're-learn' the upper and lower limits of travel. This simple procedure is explained fully in the Driver's Handbook, Section 3.

Reset the clock to the correct time.

The radio cassette player display will indicate 'code'. The radio will not operate until the correct security code has been re-entered. Refer to the Sound System Handbook.

#### Bulb Renewal

It is important that only jaguar builts of the type specified on page 5-16 are used when renewing bulbs.

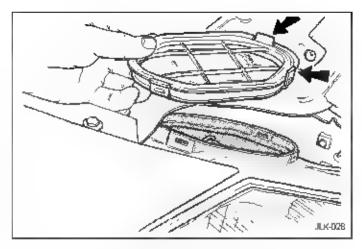
Before renewing bulbs, switch off the ignition and light switches.

### Front Fog Lamp - Bulb Renewal

It is recommended that the front fog lamp bulbs are renewed by a Jaguar Dealer

## Headlamp - Bulb Renewal

Caution: These buibs are halogen types and will be damaged if touched by hand or contaminated with oil or grease. It is important to use clean gloves or cloth when handling a bulb which is to be used again. A contaminated bulb may be cleaned with methylated spirit before refitting.



#### Main Beam, Front Direction Indicator and Side Light Access

Access to the headlamp unit for main beam, front direction. indicator and side light bulb renewal, is through the clear hexagon cap at the rear of the headlamp unit.

Open the hood and remove the hexagon cap by squeezing the two lower clips, arrowed above.

When ref tting the hexagon cap make sure the sea is in piace.

## 5-10 Vehicle maintenance

To change any of the bulbs shown on this page, first remove the hexagon access cap as described on page 5-9

## Main Beam Bulb Renewal (A)

Rotate the bulb holder anti-clockwise by a quarter of a turn to remove from the headlamp unit. Lift the plastic spring clips (B) and remove the bulb assembly from the harness connector Remove the bulb and fit a new one of the correct type, see page 5-16. Refit the bulb assembly to the harness connector Refit the assembly into the headlamp unit.

#### Front Direction Indicator - Bulb Renewal (C)

Turn the direction indicator bu b holder a quarter turn and remove

Remove the bulb and fit a new one of the correct type, see page 5-16.

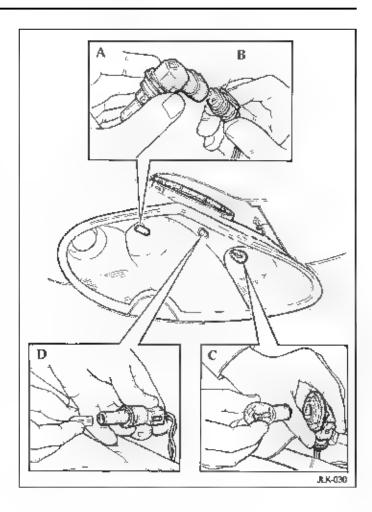
### Front Parking (Side) Light - Bulb Renewal (D)

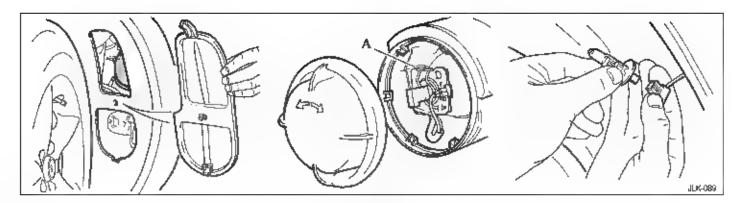
Rotate the bulb holder a quarter turn and remove from the headlamp

Pull the bulb from the holder and fit a new one of the correct type, see page 5-16.

Reposition the bulb holder in the headlamp unit and rotate a quarter turn.

Refit the hexagon access cap as described on page 5-9.





### Dip Ream Bulb Access

Access to the dip beam bulb is as follows: Turn the front wheels to allow free access to the wheel arch

Remove the wheel arch access panel by rotating the centre fastener and ifting the lower retaining clip.

Turn the cap at the back of the d.p beam a quarter turn anti-clockwise and remove.

When refitting the cap make sure the seal is in place.

## Dip Beam - Bulb Renewal

Push the spring retainer (A) to the right and rearwards to release. Remove the bu b holder

Remove the bulb and fit a new bulb of the correct type, page 5-16.

Refit the bulb holder and the spring retainer

## 5-12 Vehicle maintenance

### Rear Light Assembly Bulb Renewal

The rear light assembly has the following bulbs:

- (A) Fog light.
- (B) Tai light
- (C) Stop light
- (D) Reverse ight
- (E) Direction Indicator

Ensure that the lights and ignition switch are OFF before removing any bulbs.

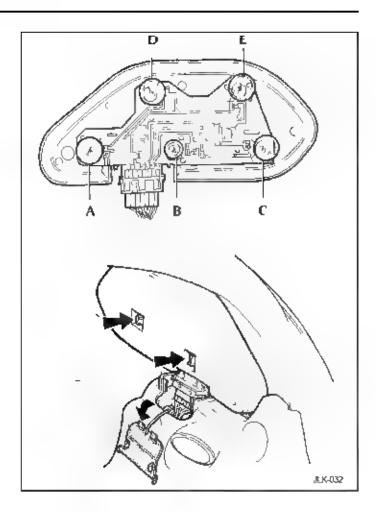
Open the luggage compartment and pull the flap on the seal retainer to expose the rear light connector

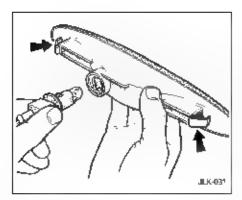
Squeeze the caps on the rear of the unit together and remove the builb carrier

Remove the fau ty bulb and fit a new one of the correct type, as llustrated on the bulb holder fitment of the correct type is essential, see page 5-16.

Reposition the bulb carrier and snap into place.

Clip the seal retainer back into position.





### Side Marker Light - Bulb Renewal.

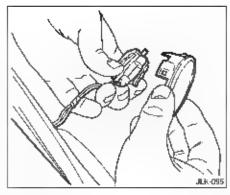
To remove the side marker leases it is necessary to compress the spring cups at the back of the lens. Access to the rear of the front side marker is through the wheel arch access panel.

To access the back of the rear side. marker it is necessary to reach up behind the bumper cover Because of the proximity of the exhaust system, make sure the exhaust is cold when renewing the rear side marker bulb.

Twist the bulb holder anti-clockwise and remove. Pull out the bulb and fit a new one of the correct type, see page 5-16.

Refit the builbinoider

Press the unit into place in the front wing/ bumper cover



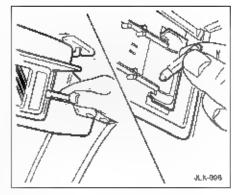
#### Luggage Compartment Light - Bulb Renewal

Carefully prise the light unit from the uggage compartment trim panel. Lightly squeeze the clear toggles on both sides of the bulb to remove the lens

Fit a new bulb of the correct type, see page 5-16

Refit the lens.

Refit the light unit to the luggage compartment trim pane.

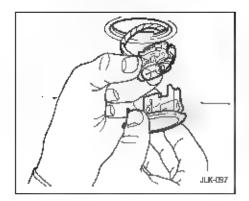


Sun Visor Vanity Mirror Light - Bulb Renewal

Swing the sun visor down and lift the vanity mirror flap. Using a screwdriver carefully prise the mirror/lens assembly. from the sun visor. Remove the build from the holder and fit a new one of the correct type, see page 5-16.

Refit the mirror/lens.

## 5-14 Vehicle maintenance



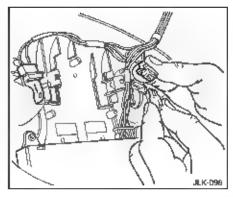
#### Interior Roof Light (Coupe Only) Bulb Renewal

Carefully prise one end of the light unit from the roof and remove. Lightly squeeze the clear toggles on both sides of the bulb to remove the lens

Remove the bulb and fit a new one of the correct type, see page 5-16.

Refit the lens.

Refit the light unit back into the roof



## Roof Console Courtesy and Map Light - Bulb Renewal

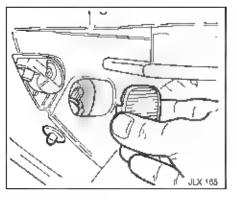
Carefully remove the mof console from the trum panel. (The console is a pullypush fit.)

Remove the bulb holder

Remove the bulb and fit a new one of the correct type, see page 5-16.

Refit the bulb holder

Refit the roof console by carefully pressing into position in the trim panel



## Glove Box Light - Bulb Renewal

Open the glove box and carefully prise the lens from the left-hand side of the glove box.

Remove the bulb from the bulb holder and fit a new one of the correct type, see page 5-16.

Refit the lens into the giove box.

### Footwell Light Bulb Renewal

Press the light unit forward against the spring and carefully prise out the edge of the unit to a low its remova .

Remove the bulb holder

Remove the bulb and fit a new one of the correct type, see page 5-16.

Refit the light unit.

### Door Guard Light Bulb Renewal

Remove the red/clear iens by inserting a flat biade screwdriver through the access hole at the bottom of the iens, to disengage the clip leg, then slide the lens down.

Remove the bulb and fit a new one of the correct type see page 5-16.

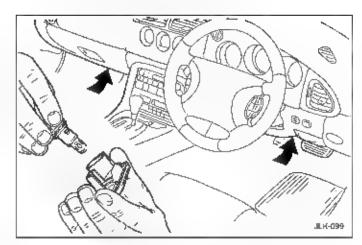
Refit the iens.

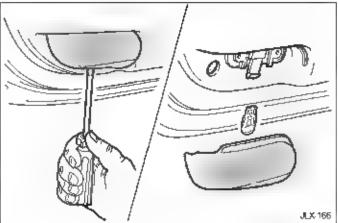
### Number Plate Light - Bulb Renewal

A special tool is required to remove the trun to give access to the number plate light. It is recommended that number plate bulb is renewed by a jaguar Dealer

## High Mounted Stop Light – Intertor and Exterior – Renewal

Both types of high mounted stop lights have 16 LEDs. Should one or more of these LEDs fail, then the unit may cease to meet legal requirements and must be renewed immediately by a laguar Dealer.





## 5-16 Vehicle maintenance

## **Bulb Chart**

Description	Capacity	Туре
Door guard light	12V 5W	Capless long life
Side marker light.	12V 5W	Capless long life.
Fog lamp - Pront	12V 55W	Halogen H3 long life.
Fog light Rear guard.	12V 21W	Bayonet long ife.
Footwell ight.	12V 5W	Bayonet long ife.
Front direction normalization	12V 21W	Bayonet amber long life
Front parking side:	12V 5W	Capiess long I fe.
Glovebox light	12V 4W	Bayonet long lite
Headlamp – dip.	12V 55W	Halogen ∺1 iong life
Headlamp – Mambeam	12V 60W	Halogen ∺B3.

Description	Capacity	Туре
Luggage compartment ight.	12V 5W	Festoon long I fe
Number plate light.	12V 5W	Capless long life
Rear direction ndicator.	12V 21W	Bayonet amber long life.
Reverse light.	12V 21W	Bayonet long ife.
Roof central courtesy ight – Coupe	12V 5W	Festoon long life
Roof console map light.	12V 6W	Capless.
Side marker light	12V 5W	Capless long life
Stop light.	12V 21W	Bayonet long ife.
Sun visor vanity in irror ight.	12V 3W	Festoon
Tai light	12V 5W	Bayonet long ife

## Windscreen Wiper Blades

Use Jaguar Screen Clean Paste to remove contam nation from the windscreen to ensure effective wiping or if smearing or juddering becomes evident. A more aggressive cleaning agent may be required to remove stubborn contamination. Contact a Jaguar Dealer for advice.

Wash the wiper blades w thia m ld detergent solution.

Renew the wiper blades before and after each winter, or more often if required.

Note: The wiper blade rubber inserts will be renewed at every service interval except for the 40,000 m le (64,000 kilometre) interval when the wiper blades are renewed (chargeable to customer).

#### Windscreen Wiper Blades - Inspect, Clean and Renew

Lift the wiper biade clear of the windscreen and wipe the blade. with a clean, soft cloth moistened with water to which a mild hquid detergent has been added.

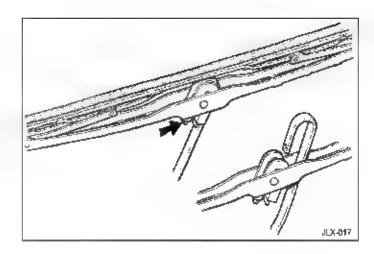
Inspect the wiper biade, and if there any signs of wear or damage, renew the blade.

### Renewing Windscreen Wiper Blades

Move the wiper arm away from the windscreen, squeeze the retaining of p and withdraw the wiper blade from the arm

After fitting the new blade, check that it is held firmly Re-position the wiper arm and blade on the windscreen.

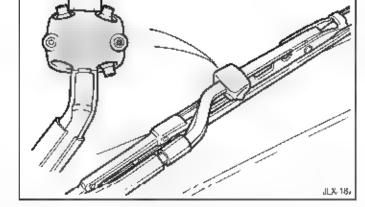
The wiper blades are specifically designed for Jaguar and no other type of blade will give the correct result.



## 5-18 Vehicle maintenance

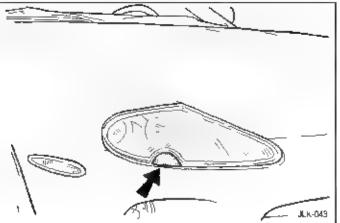
## Windscreen Washers

The windscreen washer tubes and nozzles are mounted on the wiper arms to apply the washer fluid directly to the windscreen



## Powerwash System

**Note:** The head amp washer jets are factory set. Should they require further adjustment consult your Jaguar Dealer.



# Specifications 6-1

## Vehicle Data

Engine	4.0 lttre normally aspirated	4.0 litre supercharged
Туре	V8, dual overhead camshafts 4 valves/cylinder	V8, dual overhead camshafts 4 valves/cylinder
Capacity.	244 nch³ '3996 cm³)	244 nch³ 3996 cm³)
Bore	3.386 nch (86 mm)	3 386 nch (86 mm)
Stroke	3 386 nch (86 mm)	3 386 inch (86 mm)
Firing order: 1A and 1B cylinders at front of engine .	1A, 1B, 4A, 2A, 2B, 3A, 3B, 4B	1A, 1B, 4A, 2A, 2B, 3A, 3B, 4B
Compression ratio	10 75 . 1	9.0 , 1
Spark plugs (unleaded tuel)		
- Type	NGK PERSG-11E	NGK PFR5G-11E
- Electrode gap.	0.040 ± 0.043 (nch (1.0 = 1.1 mm)	0.040 0.043 nch (1.0 - 1.1 mm)
Transmission		
Type – Automatic	5 Speed	5 Speed
Final drive type	CKN 14HU	GKN 14HU
	On centre ne difterentia	On centre line differentia

# 6-2 Specifications

Weights (Approximate)

Vehicles with the 4.0 litre Normally Aspirated Engine

	Coupe		Convertible	
	kg	łb	kg	lb
Kerb weight .	1615	3553	1705	3751
Front axle kerb weight .	842	1852	877	1929
Rear axle kerb weight	773	1700	828	1821
Gross vehicle weight (G.V.W.)	2010	4431	2100	4630
Gross front axie weight	953	2100	983	2167
Gross rear axle weight	1057	2330	1117	2463
Maximum permitted luggage compartment load with passenger and driver	48	106	48	106

# Specifications 6-3

## Weights (Approximate) (continued)

## Vehicles with the 4.0 litre Supercharged Engine

	Coupe		Convertible	
	kg	lb	kg	lb
Kerb weight	1640	3616	1750	3858
Front axie kerb weight	853	1881	910	2006
Rear axle kerb weight	787	1735	840	1852
Gross vehicle weight (G V.W )	2010	4431	2100	4630
Gross front axle weight	933	7100	9AD	2167
Gross rear axle weight	1057	2330	1117	2463
Maximum permitted luggage compartment load with passenger and driver	48	106	48	106

# 6-4 Specifications

## Dimensions (Coupe and Convertible)

	mm	inch
Overa Liength	4760	187.4
Overall width including mirrors	2015	81 7
Overa I width w thout mirrors	1829	70.8
Overa I height (at gross vehicle weight)	1271	
M numum ground clearance (at gross vehicle weight)		
Coupe	164	6.5
Convertible	162	64
Wheelbase	2588	101 9
Track		
Front	1504	59.2
Rear	1504	59.2
Turning circle		
Kerb to kerb	11 metres	36 feet 1 inch

# Specifications 6-5

## Wheel/Tyre Data

Jaguar original equipment and recommended wheels and tyres.

Caution Do not mix tyre size or make.

Wheel Name	Road Wheel Size	Tyre Type/Stze
Revolver	8] x 17	Pirelli P Zero 245/50 ZR17 99Y Assimetrico
Lamina	8) x 17	Pirelli P Zero 245/50 ZR17 99Y Assimetrico
7 Flute	Front 8J x 18 Rear 9, x 18	Front Pirell P Zero 245/45 ZR 18 96Y Direzionale Rear Pire i P Zero 255/45 ZR 18 99Y Assimetrico
Double five	Front 8) x 18 Rear 9, x 18	Front Pirell P Zero 245/45 ZR 18 96Y Direzionale Rear – Pirel i P Zero 255/45 ZR 18 99Y Assimetrico

### 6-6 Specifications

#### Temporary-use Spare Wheel (where fitted)

- Road whee size 18 x 3.5

Tyre type/size. Pirei i 135/80 R 18



#### WARNING:

Fallure to comply with the following can be dangerous. When a temporary-use spare wheel is fitted, switch off traction control, drive with caution and replace with the specified wheel and tyre assembly as soon as possible. Do not fit more than one temporary-use spare at one time. Temporary-use spare, maximum speed is 50 mph (80 km/h).

For information about the temporary lise space wheel, see page 4-1,

#### Winter (Snow) Tyres

The tyres fitted as original equipment are designed with a rubber compound, tread pattern and width specially suited for high speeds in normal road conditions, but they are less suitable during extremes of low temperatures, snow and ice. The use of winter tyres will considerably improve the vehicle's handling during these conditions.

Winter tyres must be used in vehicle sets, that is, fitted on a I four wheels, see SECTION 6: Wheel/Tyre Data for recommended tyres and tyre pressures.

It is recommended that only Jaguar approved winter tyres are used.

Tyre type/size. Pirel i Winter 210 Performance M+S 245/

50 R 17

Pirell Winter 210 Performance M+S 245/ 45 R 18.

Only use winter tyres in complete sets of the same type/size

Caution: Tyre directional indicators must be rotating in a clockwise direction when viewed from the right-hand side of the vehicle, and anti-clockwise when viewed from the left-hand side of the vehicle.

Do not exceed 130 mph (210 km/h, when using Jaguar approved winter tyres

For information about snow chains, or a "Spikes Spider" accessory, see page 5-4.

#### Recommended Tyre Pressures

Tyres recommended on page 6-5 must be inflated to the tollowing cold inflation pressures:

		Maximum comfort Speeds up to 160 km/h (100 mph)	Normal Pressures
17 Inch Wheels	Front	26 lbf//n² (180 kPa, 1,8 κg/cm², 1,8 bar)	32 lbf/in² (220 κPa, 2,24 kg/cm², 2,2 bar)
17 IRGI WIREES	Rear	28 lbf/ n² (190 kPa, 2,0 κg/cm², 1,9 bar)	34 bf/m² (230 kPa, 2,4 kg/cm², 2,3 bar)
18 Inch Wheels	Front	26 lbf/in² (180 kPa, 1,8 кg/cm², 1,8 bar)	32 lbf/in² (220 кРа. 2.24 kg/cm², 2,2 bar)
16 Mail Whiteels	Rear	28 lbf/'n² (190 kPa, 2,0 kg/cm², 1,9 bar)	34 lbf/in² (230 kPa, 2,4 kg/cm², 2,3 bar)
20 Inch Wheels	Front	28 lbf/in² (190 kPa, 2,0 кg/cm², 1,9 bar)	34 bt/in² (230 kPa, 2,4 kg/cm², 2,3 bar)
20 mai wikes	Rear	28 lbf/in² (190 kPa, 2,0 кg/cm², 1,9 bar)	34 bt/in² (230 kPa, 2,4 kg/cm², 2,3 bar)
Temporary use spare v	wheel	•	60 bt/in² (420 kPa, 4,2 kg/cm², 4,0 bar)

**Note:** A label stating the recommended tyre pressures is fixed to the underside of the centre console storage compartment lid

### Tyres Without Jaguar Approval

Tyres other than those recommended must be inflated to the following cold inflation pressure (front and rear)

44  $bf/in^2$  (300 kPa, 3,1  $\kappa g/cm^2$ , 3,0 bar)

When using non-Jaguar approved winter tyres, inflate to the above recommended tyre pressure and do not exceed the tyre's speed capability

### 6-8 Specifications

#### **Fuel Requirements**

Use only Premium Unleaded gasoline with a minimum Anti-Knock Index (AKI) of 91.

Oxygenated gasoline blended with ethanol (max. 10%) methanol (max 10%) or

methyl tertlary butyl ether (MTBE) (max. 15%) may be used.

## Reformulated Gasoline with a minimum AKI of 91 may also be used

The use of high quality fuel containing "intake system deposit control" detergent and other add tives will help to keep the vehicle's intake system free of deposits and its fuel system free of corrosion and gumming.

If high quality fucia containing 'intake system deposit control detergent and other additives are used continuously, there should be no need to add any after market products to the fuel tank.

If problems are experienced with starting, rough idling or hesitation when the engine is cold, it may be caused by gasoline with a low volatility. Try a different grade and/or brand of fuel. If the condition persists, see a jaguar Dealer or a qualified service technician

#### Oxygenated Gasoline

Fuels that are blended with compounds containing oxygen, called oxygenates, may be used. Common oxygenates are ethanol or grain alcohol (blended at no more than 10%), methanol or wood alcohol (blended at no more than 5% with necessary co-solvents and additives, and MTBE or methy tertiary butyl ether (blended at no more than 15%). The type of oxygenate may be found on the fuel pump or by asking the attendant. In certain areas of the country, oxygenates are required to be in all fuels to help improve air quality.

Generally, difficulty should not be experienced while operating the vehicle on fuels containing oxygenates. If problems are experienced switch to a fuel with a different type of oxygenate, or switch to a fuel that does not contain oxygenates, if available.

#### Reformulated Gasoline

Several petroleum companies have announced the availability of reformulated fuels.

These fuels are specially designed to further reduce vehicle emissions.

Jaguar fully supports all efforts to protect and maintain ambient air quality, and encourage the use of reformulated gasoline where available

#### Catalytic Converters

A few precautions on the use of vehicles fitted with catalytic converters are necessary. These are

- 1 n order to maintain the efficiency of the emission control system it is essential that unleaded fuel is used. Use of leaded fuel will seriously damage the catalytic converters
- Never leave the vehicle unattended with the engine running.
- Heavy impact on the converter casings must be avoided.
- 4. The engine settings must not be altered: they have been established to ensure that the vehicle will comply with stringent exhaust emission regulations. Incorrect engine settings could cause unusually high catalytic converter temperatures and thus result in damage to the converter and vehicle. If adjustment to the settings is considered necessary, this should be performed by a Jaguar Dealer.
- A correctly tuned engine optimises exhaust emissions, performance and fuel economy and it is recommended that the vehicle is regularly maintained.
- 6. Do not continue to operate the vehicle if any engine malfunction is evident: malfunctions should be rectified mmediately. For instance, misfire, loss of engine performance, excessive oil consumption or engine run-on may lead to unusually high catalytic converter temperatures and may result in damage to the converters and vehicle.

- 7. The use of catalytic converters increases exhaust system temperatures, therefore, do not operate or park the vehicle in areas where combustible materials such as dry grass or leaves may come into contact with the exhaust system.
- 8. Do not run the engine with either a spark plug lead disconnected or a spark plug removed. Do not use any device that requires an insert into a spark plug hole in order to generate air pressure e.g. tyre pump, paint spray attachment etc., as this could also result in catalytic converter damage.
- The vehicle is designed for normal road use. Below are examples of abuse which could damage the catalytic converters and vehicle. These may lead to a dangerous condition due to excessively high catalytic converter temperatures.
  - Competition or off road use.
  - Excessive engine speed.
  - · Overloading the vehicle
  - Switching off the engine whilst in gear

# 6-10 Specifications

#### **Electrical Accessories**

The fitment of accessories, additional accessory supply sockets, relays and fuses must only be entrusted to a jaguar Dealer

#### Caution:

- The use of any accessories not specifically designed for this laguar will damage the electrical circuits and systems of the vehicle.
- Under no circumstances must the power supply be obtained directly from either battery terminal.
- The use of non-approved accessories can reduce the battery capacity and charge period to an unacceptable level, therefore Jaguar cannot accept any liability for the fitment of any such Item.

The cigar lighter socket can be used for plug in accessories which are only temporarily connected to the vehicle (e.g. car vacuum cleaner).

### **Electrical Accessory Supply Sockets**

Two electrical accessory supply sockets are provided in the following areas:

- On the passenger side, behind the glove box.
- 2. In the Liggage compartment, clipped near the battery

**Note:** Before connecting electrical accessories to these sockets, consult a jaguar Dealer

#### **Earth Points**

If an accessory needs to be connected to an earth point, consult a laguar Dealer.

Caution Under no circumstances must holes be drilled in the bodywork to accept earth terminals.

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